

Upcoming Space Shuttle Missions

Updated March 3, 2009 (replaces Feb. 20)

Kennedy Space Center Media Services

STS Mission No. (shuttle program flight no.)	STS-119 (125)	STS-125 (126)	STS-127 (127)	STS-128 (128)
Orbiter (orbiter flight no.)	Discovery/OV-103 (36)	Atlantis/OV-104 (30)	Endeavour/OV-105 (23)	Discovery/OV-103 (37)
Primary Mission	28th ISS flight (15A) -- ITS S6, solar arrays	Hubble Space Telescope Servicing Mission 4	29th ISS flight (2J/A) -- JEM EF, ELM-ES, SLP-D2	30th ISS flight (17A) -- MPLM, LMC
Targeted Launch Date** Pad	March 12, 2009* 39A	May 12, 2009 39A	June 13, 2009 39A	Aug. 6, 2008 39A
Estimated Launch Window	5-10 minutes	~60 minutes	5-10 minutes	5-10 minutes
Mission Duration	14 days	11 days	TBD	TBD
Inclination/ Orbital Insertion Altitude	51.6 degrees 122 nautical miles	26.5 degrees 308 nautical miles	51.6 degrees 122 nautical miles	51.6 degrees 122 nautical miles
Crew Members (no. of shuttle flights)	Cdr: Lee Archambault (2) Plt: Dominic Antonelli (1) MS: Joseph Acaba (1) MS: Richard Arnold (1) MS: John Phillips (3) MS: Steven Swanson (2) Up to ISS: Koichi Wakata (JAXA) (3) Down from ISS: Sandra Magnus (2)	Cdr: Scott Altman (4) Plt: Gregory C. Johnson (1) MS: John Grunsfeld (5) MS: Michael Massimino (2) MS: Andrew Feustel (1) MS: Michael Good (1) MS: Megan McArthur (1)	Cdr: Mark Polansky (3) Plt: Douglas Hurley (1) MS: Christopher Cassidy (1) MS: Thomas Marshburn (1) MS: David Wolf (4) MS: Julie Payette (CSA) (2) Up to ISS: Timothy Kopra (1) Down from ISS: Koichi Wakata (JAXA) (3)	Cdr: Rick Sturckow (4) Plt: Kevin Ford (1) MS: Danny Olivas (2) MS: Patrick Forrester (3) MS: Jose Hernandez (1) MS: Christer Fuglesang (ESA) (2) Up to ISS: Nicole Stott (1) Down from ISS: Timothy Kopra (1)

***Official launch dates are set at the Flight Readiness Review.*

**Information was added since the last chart.*

ASI = Italian Space Agency **Cdr** = Commander **CNES** = French Space Agency **CSA** = Canadian Space Agency **ESA** = European Space Agency **ELM-ES** = Experiment Logistics Module - Exposed Section **ESP** = External Stowage Platform **ICC** = Integrated Cargo Carrier **ISA** = Israel Space Agency **ISS** = International Space Station **ITS** = Integrated Truss Segment **JAXA** = Japan Aerospace eXploration Agency **JEM EF** = Japanese Experiment Module Exposed Facility **KSC** = Kennedy Space Center **Lab** = Laboratory **LMC** = Lightweight Multi-Purpose Experiment Support Structure Carrier **MPLM** = Multi-Purpose Logistics Module **MS** = Mission Specialist **no.** = number **OV** = Orbiter Vehicle **PDGF** = Power and Data Grapple Fixture **Plt** = Pilot **PS** = Payload Specialist **RMS** = Remote Manipulator System **RSA** = Russian Aviation and Space Agency **S** = Starboard **SLP-D2** = SPACEHAB Pallet - Deployable-2 **STS** = Space Transportation System **TBD** = to be determined **UF** = utility/utilization flight **ULF** = utilization and logistics flight **U/R** = under review